

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:  
Shunpei YAMAZAKI  
Application No. 08/065,757  
Filed: May 24, 1993  
For: SUPERCONDUCTING CERAMICS



Confirmation No.: 3615  
Examiner: Carol M. Koslow  
Group Art Unit: 1755

January 5, 2005

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop **AFTER FINAL**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. §1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

Since this filing has occurred with the filing of a Request under 37 CFR 1.129 and prior to issuance of an Office Action thereafter, no fee is required. However, the Commissioner is hereby authorized to charge fees connected with this filing required for compliance with the provisions of 37 C.F.R. § 1.97(c), or credit any overpayment to Deposit Account No. 19-2380.

It is requested that the accompanying PTO-1449 be considered and made of record in the above-identified application. To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that the Examiner initial a copy of this form and return it to the undersigned.

Respectfully submitted,

By: Jeffrey L. Costellia Reg. No. 44,467  
for Jeffrey L. Costellia  
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JAN 05 2005

Substitute for form 1449A/PTO				<i>Complete if Known</i>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	08/065,757
Sheet	1	of	3	Filing Date	May 24, 1993
				First Named Inventor	Shunpei YAMAZAKI
				Art Unit	1755
				Examiner Name	Carol M. Koslow
				Attorney Docket Number	740756-875

<b>U.S. PATENT DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number - Kind Code <sup>2</sup> (if known)			
		US-			
		US-			

<b>FOREIGN PATENT DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Country Code <sup>3</sup>	Kind Code <sup>2</sup> (if known)		
		AU-B-12783/88	09-15-88	BEYERS, et al.	
		AU-B-10014/88	08-11-88	VAN DOVER et al.	

<b>OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
		FISHER, Superconductor Mysteries Unravel as Developments Proceed, CERAMIC BULLETIN, 1988, pp. 725-733, Vol. 67, No. 4.			
		Beno et al., Structure of the single-phase high-temperature superconductor YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7.5</sub> , Appl. Phys. Lett., 6 July 1987, pp. 57-59, Vol. 51, No. 1.			
		HATANO et al., Superconducting and Transport Properties of B-Y-Cu-O Compounds-Orthorhombic and Tetragonal Phases, Japanese Journal of Applied Phys., May 1987, pp. L721-L723, Vol. 26, No. 5.			
		RAO et al., High T <sub>c</sub> Superconductivity in Quasi Two-Dimensional Copper Oxides of K <sub>2</sub> NiF <sub>4</sub> Structure, Current Science, January 20, 1987, pp. 47-49, Vol. 56, No. 2.			
		NAKAMURA et al., High T <sub>c</sub> Superconductivity Based on the Square Planar [CuO <sub>4</sub> ] <sub>∞</sub> -Bonding System in K <sub>2</sub> NiF <sub>4</sub> -Type (A,A <sup>*</sup> ) <sub>2</sub> CuO <sub>4</sub> and Oxygen-Deficient Perovskite (Ba <sub>2</sub> A)Cu <sub>3</sub> O <sub>7</sub> , Japanese Journal of Applied Physics, May 1987, pp. L678-L681, Vol. 26, No. 5.			

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at 222.uspto.gov or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.



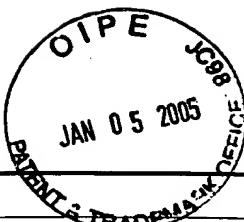
Substitute for form 1449B/PTO				<i>Complete if Known</i>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	08/065,757
Sheet	2	Of	3	Filing Date	May 24, 1993
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		KISHIO et al., Superconductivity Achieved at Over Liquid Nitrogen Temperature by (Mixed Rare Earths)-Ba-Cu Oxides, Japanese Journal of Applied Physics, May 1987, pp. L694-L696, Vol. 26, No. 5.	
		OOTA et al., Electrical, Magnetic and Superconducting Properties of the High-T <sub>c</sub> Superconductor Er <sub>1-x</sub> Yb <sub>x</sub> Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> , Japanese Journal of Applied Physics, December 1987, pp. L2091-L2093, No. 12.	
		ISHIDA, Compositional Variation of High T <sub>c</sub> in Yb <sub>x</sub> Er <sub>1-x</sub> Ba <sub>2</sub> Cu <sub>3</sub> O <sub>6+y</sub> System, Japanese Journal of Applied Physics, August 1987, pp. L1294-L1295, Vol. 26, No. 8.	
		IHARA et al., Possibility of Superconductivity at 65°C in Sr-Ba-Y-Cu-O System, Japanese Journal of Applied Physics, August 1987, pp. L1413-L1415, Vol. 26, No. 8.	
		TAKAGI et al., High-T <sub>c</sub> Superconductivity of La-Ba-Cu Oxides. II.-Specification of the Superconducting Phase, Japanese Journal of Applied Physics, February 1987, pp. L123-L124, Vol. 26, No. 2.	
		OHSIMA et al., Superconducting and Structural Properties of the New Ba <sub>1-x</sub> Ln <sub>x</sub> CuO <sub>3-y</sub> Compound System (Ln=La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er and Yb), Japanese Journal of Applied Physics, May 1987, pp. L815-L817, Vol. 26, No. 5.	
		LIANG et al., The Effect of Substitution of La for Ba and Ce for Y on the T <sub>c</sub> of Superconducting Ba <sub>2</sub> YC <sub>2</sub> O <sub>7</sub> , Japanese Journal of Applied Physics, July 1987, pp. L1150-L1152, Vol. 26, No. 7.	
		TAMEGAI et al., Structures and Upper Critical Fields of High T <sub>c</sub> Superconductors (RE)Ba <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> , Japanese Journal of Applied Physics, August 1987, pp. L1304-L1306, Vol. 26, No. 8.	

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				Examiner Name	Carol M. Koslow
Sheet	3	Of	3	Attorney Docket Number	740756-875

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		SODERHOLM et al., Incorporation of Pr in $YBa_2Cu_3O_{7-\delta}$ ; electronic effects on superconductivity, Nature, 13 August 1987, pp. 604-605, Vol. 328.		
		OKAI et al., Preparation and Physical Properties of $PrBa_2Cu_3O_y$ , Japanese Journal of Applied Physics, October 1987, pp. L1648-L1650, Vol. 26, No. 10.		
		JAYARAM et al., High Temperature Superconductivity in Y-Ba-Cu-O and Y-Ba-Sr-Cu-O Systems, Solid State Communications, 1987, pp. 713-716, Vol. 63, No. 8.		
		ONO et al., Superconductivity in $Ba_{2(1-x)}Sr_{2x}YCu_3O_{7-y}$ , Japanese Journal of Applied Physics, October 1987, pp. L1687-L1689, Vol. 26, No. 10.		

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Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 3

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First Named Inventor	Shunpei YAMAZAKI
Art Unit	1755
Examiner Name	Carol Koslow
Attorney Docket Number	740756-875

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		Number - Kind Code <sup>2</sup> (if known)	Kind Code <sup>3</sup> (if known)			
		US-6,506,709 B1		01/14/2003	Yamazaki	
		US-				
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		Country Code <sup>3</sup> Number <sup>4</sup>	Kind Code <sup>3</sup> (if known)				

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		Extended Abstracts of Annual Scholar Meeting (The 36 <sup>th</sup> Spring Meeting, 1989) 2A-E-7/pp. 101	
		Extended Abstracts of Annual Scholar Meeting (The 36 <sup>th</sup> Spring Meeting, 1989) 2A-E-8/pp. 101	
		Shunpei Yamazaki "Official Action for Serial No. 07/859,254 dated November 5, 2003"	

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